

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2004OPA3094	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/KR 2004/003341	International filing date (<i>day/month/year</i>) 17 December 2004 (17.12.2004)	Priority Date (<i>day/month/year</i>) 19 December 2003 (19.12.2003)
International Patent Classification (IPC) or national classification and IPC IPC⁸: B29C 49/06 (2006.01)		
Applicant CHO, JA YEON		

1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I. ☒ Basis of the opinion
- II. ☐ Priority
- III. ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV. ☐ Lack of unity of invention
- V. ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI. ☐ Certain documents cited
- VII. ☐ Certain defects in the international application
- VIII. ☐ Certain observations on the international application

Date of submission of the demand 2 May 2005 (02.05.2005)	Date of completion of this report 4 April 2006 (04.04.2006)
Name and mailing address of the IPEA/AT Austrian Patent Office Dresdner Straße 87 A-1200 Vienna Facsimile No. 1/53424/200	Authorized officer REININGER K. Telephone No. 1/53424/467

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR 2004/003341

I. Basis of the report

1. With regard to the elements of the international application:*

☒ the international application as originally filed

☐ the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____.

☐ the claims:

pages _____, as originally filed

pages _____, as amended (together with any statement) under Article 19

pages _____, filed with the demand

pages _____, filed with the letter of _____.

☐ the drawings:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____.

☐ the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____.

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in printed form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____.

☐ the claims, Nos. _____.

☐ the drawings, sheets/fig _____.

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/KR 2004/003341**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement	Novelty (N)	Claims 1-15	YES
		Claims ----	NO
	Inventive step (IS)	Claims 1-15	YES
		Claims ----	NO
	Industrial applicability (IA)	Claims 1-15	YES
		Claims ----	NO

Citations and explanations (Rule 70.7)

The following documents have been cited in the Search Report:

D1: US 5 057 266 A
D2: WO 99/12715 A1
D3: JP 3-90331 A
D4: JP 6-77960 B2

These documents merely illustrate the state of the art because the methods of forming a handle disclosed in these documents are injection molding or using a preform on which a handle is formed already. Therefore the subject-matter of the present application is new.

Further it is not obvious to a person skilled in the art to combine the features known by the cited documents and thus to arrive at a new arrangement and method for manufacturing PET bottle with handle formed at body part by injection blow molding , and PET bottle manufactured by them as claimed.

As an advantage of this invention it becomes apparent that the PET bottle having the handle formed on the body, which cannot be manufactured by conventional extrusion blow molding methods, is formed by the continuous injection blow molding method, thereby providing convenience in use, enhancing efficiency upon manufacturing the PET bottle having the handle formed on the body, eliminating labour and costs related to recycling of the handle made of a different plastic material from that of the body in the conventional PET container, and preventing environmental pollution and economic loss due to waste of the handles of the conventional PET container. In addition, a container, made of plastic materials other than the PET resin, having a uniform thickness can be produced thereby.

The subject-matter of the application therefore involves an inventive step too.

The industrial applicability of the present invention is given.